

L8 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN
 ACCESSION NUMBER: 2002:574867 HCAPLUS
 DOCUMENT NUMBER: 137:125357
 ENTRY DATE: Entered STN: 02 Aug 2002
 TITLE: Solid- and solution-phase combinatorial libraries synthesis of heparin and other glycosaminoglycans as potential receptors
 INVENTOR(S): Seeberger, Peter H.; Orgueira, Hernan; Schell, Peter
 PATENT ASSIGNEE(S): Massachusetts Institute of Technology, USA
 SOURCE: PCT Int. Appl., 131 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 INT. PATENT CLASSIF.:
 MAIN: A61K
 CLASSIFICATION: 33-8 (Carbohydrates)
 FAMILY ACC. NUM. COUNT: Section cross-reference(s): 1, 3
 1
 PATENT INFORMATION:

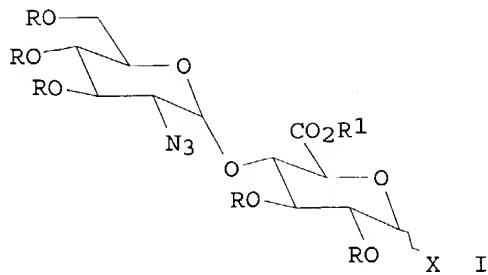
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002058633	A2	20020801	WO 2002-US1772	20020122
WO 2002058633	A3	20021017		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003013862	A1	20030116	US 2002-54724	20020122
EP 1353556	A2	20031022	EP 2002-709129	20020122
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2001-263621P	P 20010123
			WO 2002-US1772	W 20020122

PATENT CLASSIFICATION CODES:

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2002058633	ICM	A61K

OTHER SOURCE(S):	MARPAT 137:125357
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GRAPHIC IMAGE:

**ABSTRACT:**

Described is a modular, general synthetic strategy for the preparation in solution and

on a solid support of heparin, heparin-like glycosaminoglycans, glycosaminoglycans and non-natural analogs, e.g. I, wherein X is OH, acyloxy, silyloxy, halide, alkylthio, arylthio, alkoxy, OC(NH)CCl₃; R is H, alkyl, aryl, arylalkyl, heteroarylalkyl, silyl, acyl, alkenyloxycarbonyl, aralkyloxycarbonyl; R₁ is H, alkyl, aryl, arylalkyl, heteroarylalkyl and derivs. Addnl., the modular strategy provides the basis for the preparation of combinatorial libraries and parallel libraries of defined glycosaminoglycan oligosaccharides. The defined glycosaminoglycan structures may be used in high-throughput screening expts. to identify carbohydrate sequences that regulate a host of recognition and signal-transduction processes. The determination of

specific sequences involved in receptor binding holds great promise for the development of mol. tools which will allow modulation of processes underlying viral entry, angiogenesis, kidney diseases and diseases of the control nervous system (no data). Notably, the present invention enables the automated synthesis of glycosaminoglycans in much the same fashion that peptides and oligonucleotides are currently assembled. Thus, n-pentenyl (2-deoxy-2-sodium sulfonatamido-3,4,6-tri-O-sodium sulfonato- α -D-glucopyranosyl)- (1 \rightarrow 4) - (sodium 2-O-sodium sulfonato- α -D-idopyranosyluronate) - (1 \rightarrow 4) - (2-deoxy-2-sodium sulfonatamido-6-O-sodium sulfonato- α -D-glucopyranosyl) - (1 \rightarrow 4) - sodium 2-O-sodium sulfonato- β -D-glucopyranosiduronate was prepared as potential receptors.

SUPPL. TERM: solid phase prepn combinatorial glycosaminoglycan
oligosaccharide uronate heparin

INDEX TERM: Combinatorial library
Solid phase synthesis
(solid-phase combinatorial libraries synthesis of glycosaminoglycans as potential receptors)

INDEX TERM: Oligosaccharides, preparation
Receptors
ROLE: CPN (Combinatorial preparation); IMF (Industrial manufacture); SPN (Synthetic preparation); CMBI (Combinatorial study); PREP (Preparation)
(solid-phase combinatorial libraries synthesis of glycosaminoglycans as potential receptors)

INDEX TERM: 80321-89-7P 87326-73-6P
92955-17-4P 99049-65-7P
120312-09-6P 138889-14-2P
138923-10-1P 154920-34-0P
154970-28-2P 385422-21-9P
385422-22-0P 444118-29-0P
444118-30-3P 444118-31-4P

444118-32-5P 444118-33-6P
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ROLE: IMF (Industrial manufacture); RCT (Reactant); SPN
 (Synthetic preparation); PREP (Preparation); RACT (Reactant
 or reagent)

(solid-phase combinatorial libraries synthesis of
 glycosaminoglycans as potential receptors)

INDEX TERM:

87326-76-9P 444118-43-8P
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 444118-93-8P 444118-95-0P
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 444119-17-9P 444119-18-0P
 444119-19-1P 444119-20-4P
 444119-21-5P

ROLE: IMF (Industrial manufacture); SPN (Synthetic
 preparation); PREP (Preparation)

(solid-phase combinatorial libraries synthesis of
 glycosaminoglycans as potential receptors)

INDEX TERM:

56-40-6, Glycine, reactions 66-84-2,
 Glucosamine hydrochloride 582-52-5

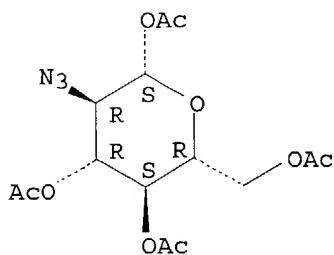
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ROLE: RCT (Reactant); RACT (Reactant or reagent)
 (solid-phase combinatorial libraries synthesis of
 glycosaminoglycans as potential receptors)

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 138923-10-1P 154920-34-0P 154970-28-2P
 385422-21-9P 385422-22-0P 444118-29-0P
 444118-30-3P 444118-31-4P 444118-32-5P
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 444119-15-7P 444119-22-6P 444119-23-7P
 444119-41-9P
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
 preparation); PREP (Preparation); RACT (Reactant or reagent)
 (solid-phase combinatorial libraries synthesis of glycosaminoglycans as
 potential receptors)

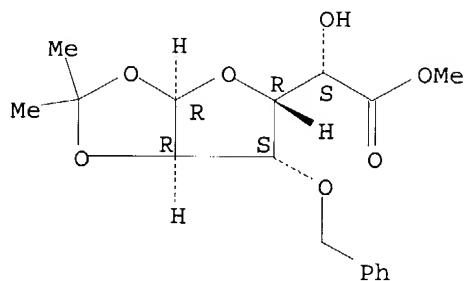
RN 80321-89-7 HCPLUS
 CN β -D-Glucopyranose, 2-azido-2-deoxy-, 1,3,4,6-tetraacetate (9CI) (CA
 INDEX NAME)

Absolute stereochemistry.



RN 87326-73-6 HCPLUS
 CN α -D-Glucofuranuronic acid, 1,2-O-(1-methylethylidene)-3-O-
 (phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

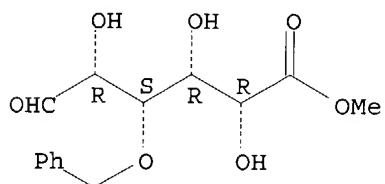
Absolute stereochemistry.



RN 92955-17-4 HCAPLUS

CN L-Iduronic acid, 3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

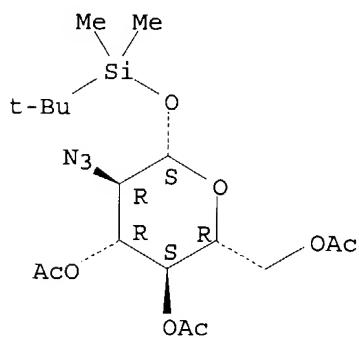
Absolute stereochemistry.



RN 99049-65-7 HCAPLUS

CN beta-D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,4,6-triacetate (9CI) (CA INDEX NAME)

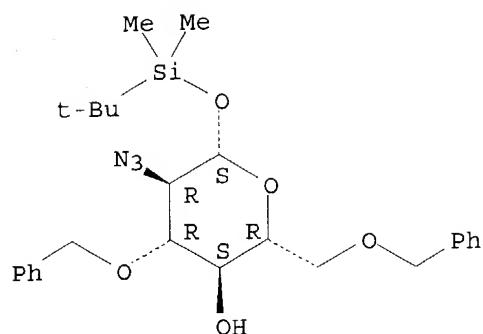
Absolute stereochemistry.



RN 120312-09-6 HCAPLUS

CN beta-D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

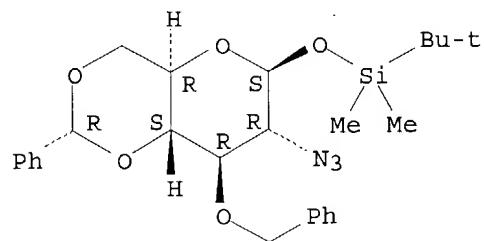
Absolute stereochemistry. Rotation (-).



RN 138889-14-2 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-4,6-O-[(R)-phenylmethylen]- (9CI) (CA INDEX NAME)

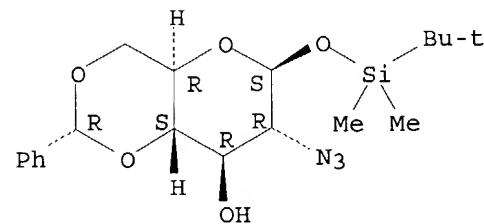
Absolute stereochemistry.



RN 138923-10-1 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-4,6-O-[(R)-phenylmethylen]- (9CI) (CA INDEX NAME)

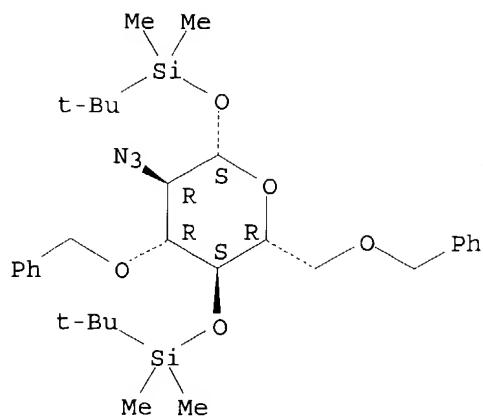
Absolute stereochemistry.



RN 154920-34-0 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1,4-bis-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

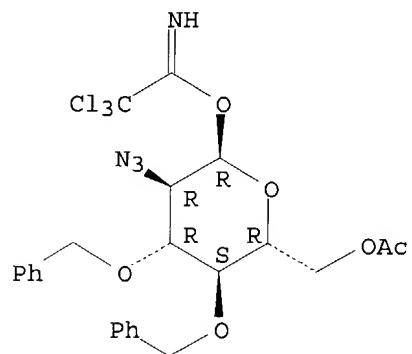
Absolute stereochemistry. Rotation (+).



RN 154970-28-2 HCAPLUS

CN α -D-Glucopyranose, 2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)-, 6-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

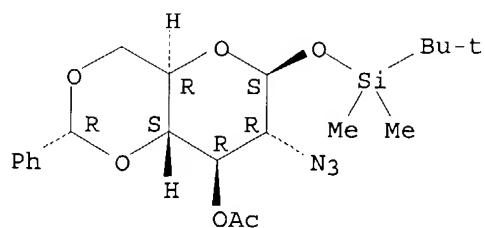
Absolute stereochemistry.



RN 385422-21-9 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-4,6-O-[(R)-phenylmethylen]-, 3-acetate (9CI) (CA INDEX NAME)

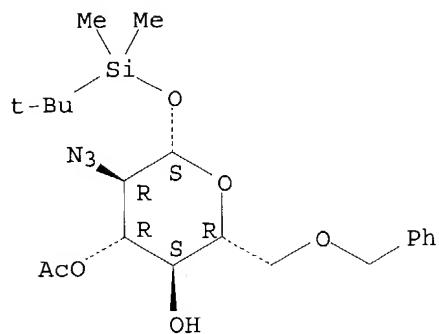
Absolute stereochemistry. Rotation (-).



RN 385422-22-0 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)-, 3-acetate (9CI) (CA INDEX NAME)

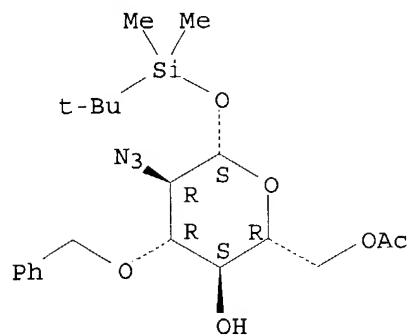
Absolute stereochemistry. Rotation (-).



RN 444118-29-0 HCPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate (9CI) (CA INDEX NAME)

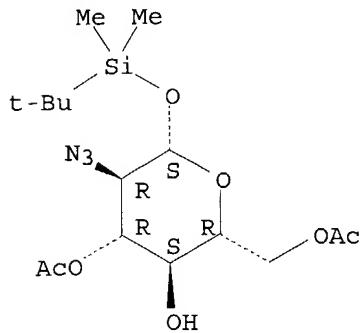
Absolute stereochemistry. Rotation (-).



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CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate (9CI) (CA INDEX NAME)

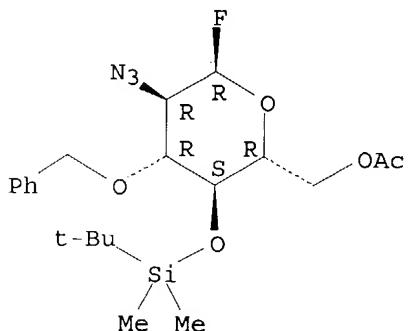
Absolute stereochemistry. Rotation (-).



RN 444118-31-4 HCPLUS

CN α -D-Glucopyranosyl fluoride, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate (9CI) (CA INDEX NAME)

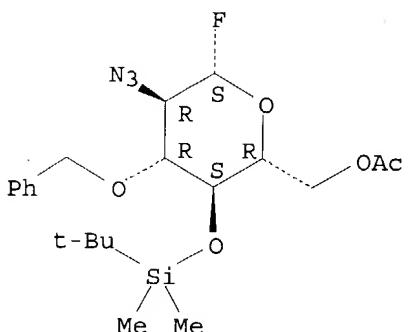
Absolute stereochemistry.



RN 444118-32-5 HCPLUS

CN β -D-Glucopyranosyl fluoride, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate (9CI) (CA INDEX NAME)

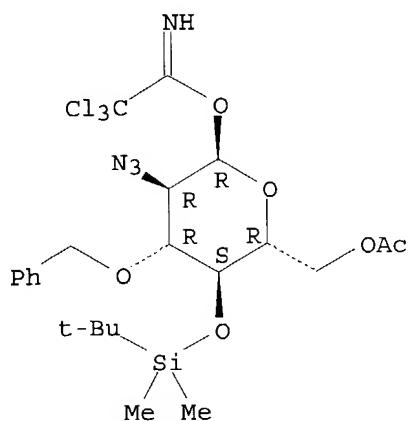
Absolute stereochemistry.



RN 444118-33-6 HCPLUS

CN α -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

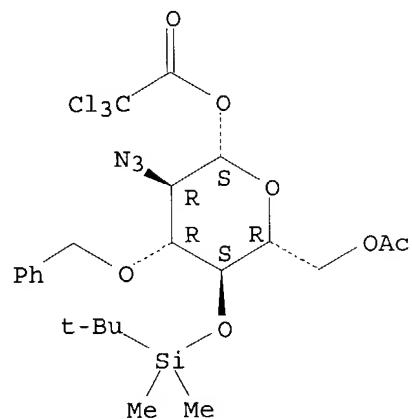
Absolute stereochemistry. Rotation (+).



RN 444118-34-7 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate 1-(trichloroacetate) (9CI) (CA INDEX NAME)

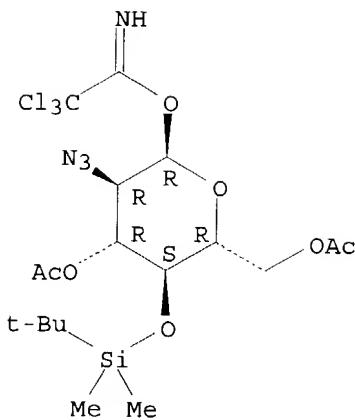
Absolute stereochemistry. Rotation (+).



RN 444118-35-8 HCAPLUS

CN α -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

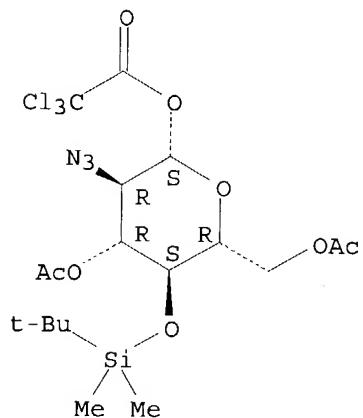
Absolute stereochemistry.



RN 444118-36-9 HCAPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate 1-(trichloroacetate) (9CI) (CA INDEX NAME)

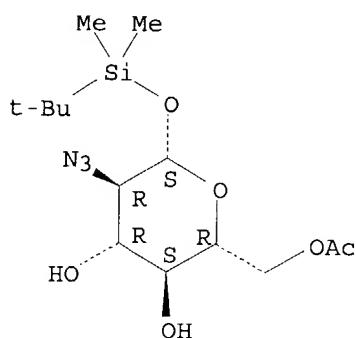
Absolute stereochemistry.



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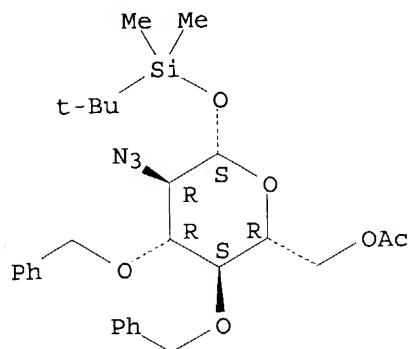
CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-, 6-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



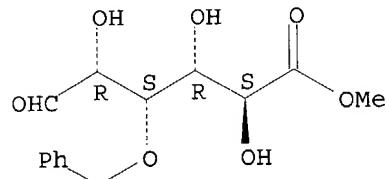
RN 444118-38-1 HCAPLUS
 CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3,4-bis-O-(phenylmethyl)-, 6-acetate (9CI)
 (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



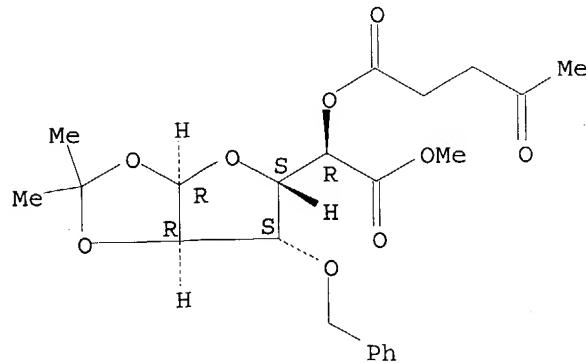
RN 444118-39-2 HCAPLUS
 CN D-Glucuronic acid, 3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 444118-40-5 HCAPLUS
 CN β -L-Idofuranuronic acid, 1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester, 4-oxopentanoate (9CI) (CA INDEX NAME)

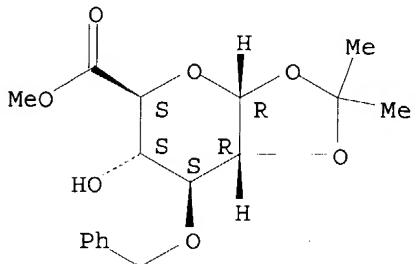
Absolute stereochemistry. Rotation (-).



RN 444118-41-6 HCAPLUS

CN α -D-Glucopyranuronic acid, 1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

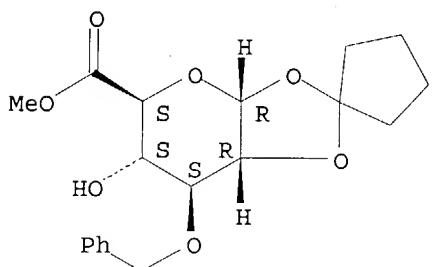
Absolute stereochemistry. Rotation (+).



RN 444118-42-7 HCPLUS

CN α -D-Glucopyranuronic acid, 1,2-O-cyclopentylidene-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

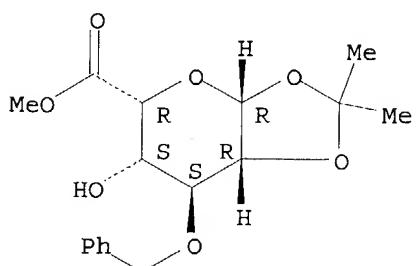
Absolute stereochemistry. Rotation (+).



RN 444118-44-9 HCPLUS

CN β -L-Idopyranuronic acid, 1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

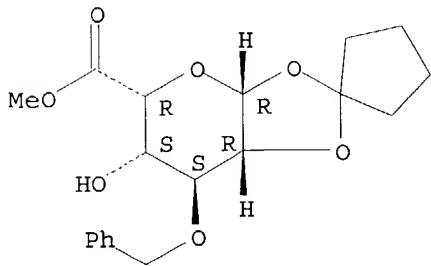
Absolute stereochemistry. Rotation (-).



RN 444118-45-0 HCPLUS

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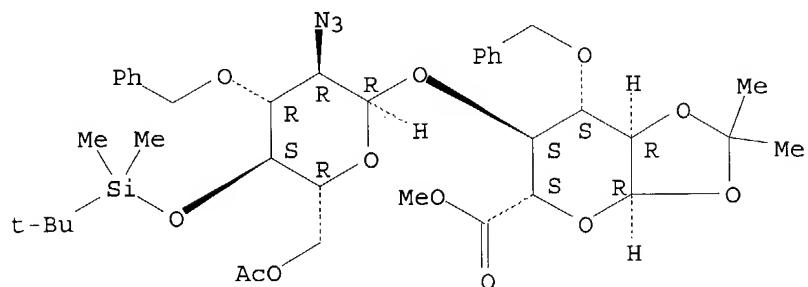
Absolute stereochemistry. Rotation (+).



RN 444118-47-2 HCPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

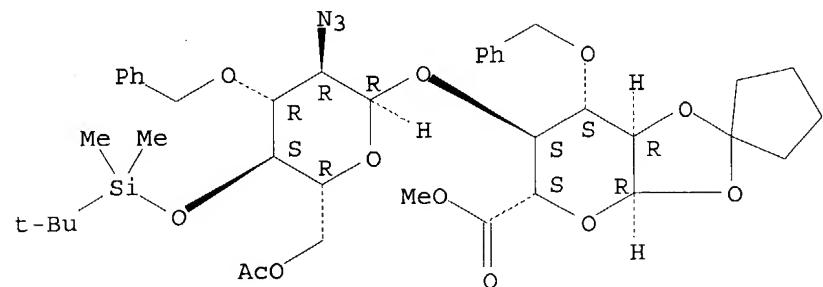
Absolute stereochemistry. Rotation (+).



RN 444118-48-3 HCPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-cyclopentylidene-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

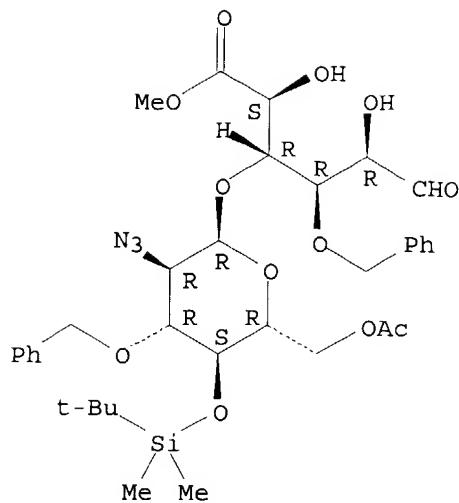
Absolute stereochemistry. Rotation (+).



RN 444118-49-4 HCPLUS

CN D-Glucuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

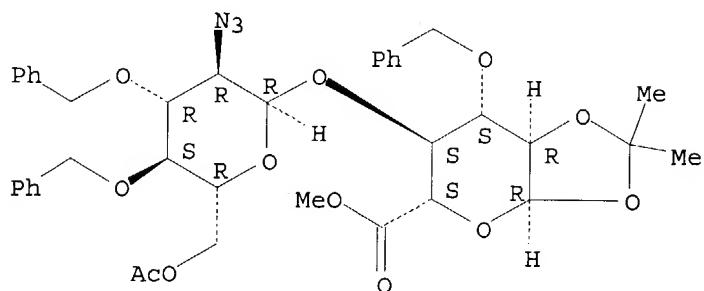
Absolute stereochemistry.



RN 444118-50-7 HCPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-(1-methylethyldene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

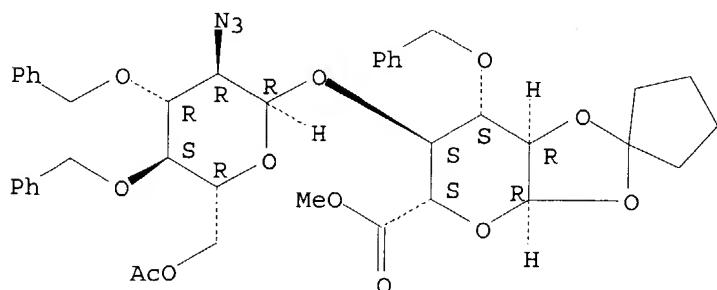
Absolute stereochemistry. Rotation (+).



RN 444118-51-8 HCPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-cyclopentylidene-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

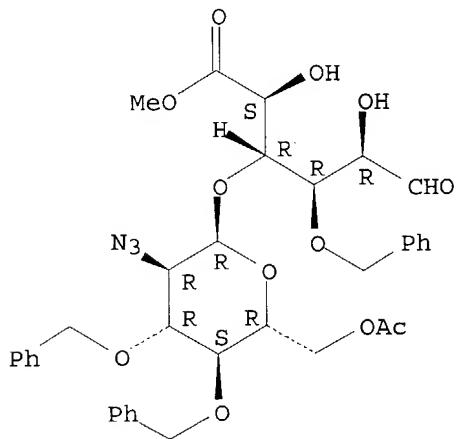
Absolute stereochemistry. Rotation (+).



RN 444118-52-9 HCPLUS

CN D-Glucuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

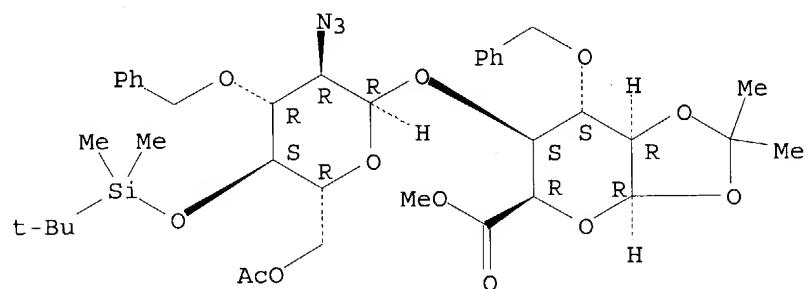
Absolute stereochemistry.



RN 444118-53-0 HCPLUS

CN β -L-Idopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

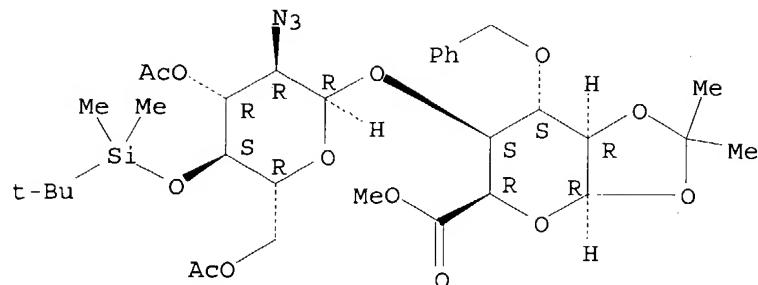
Absolute stereochemistry. Rotation (+).



RN 444118-54-1 HCPLUS

CN β -L-Idopyranuronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

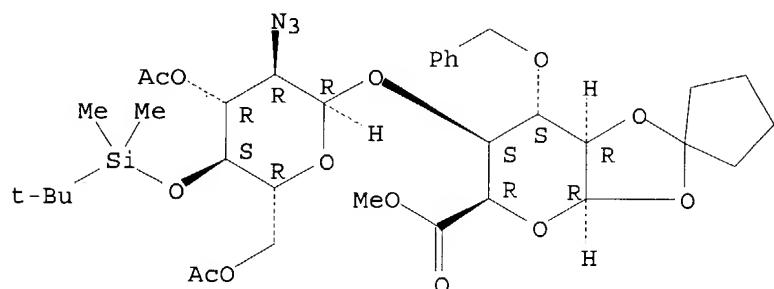
Absolute stereochemistry. Rotation (+).



RN 444118-55-2 HCPLUS

CN β -L-Idopyranuronic acid, 1,2-O-cyclopentylidene-4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

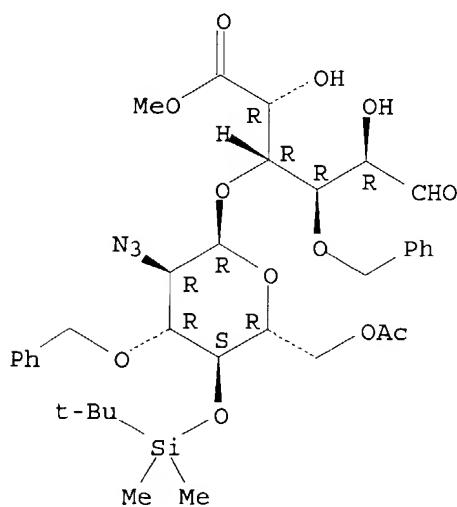
Absolute stereochemistry. Rotation (+).



RN 444118-56-3 HCPLUS

CN L-Iduronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

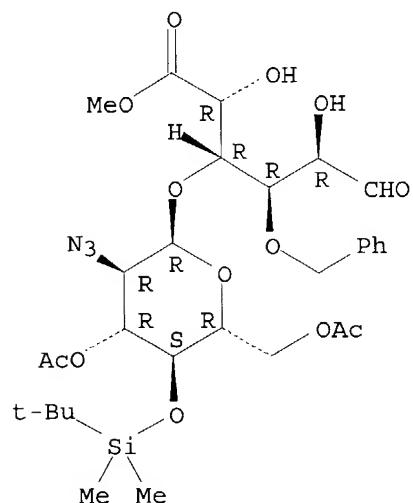
Absolute stereochemistry.



RN 444118-57-4 HCPLUS

CN L-Iduronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

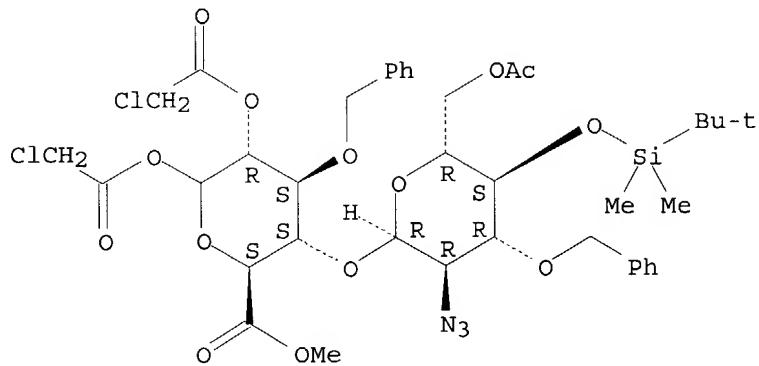
Absolute stereochemistry.



RN 444118-58-5 HCAPLUS

INN: D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 1,2-bis(chloroacetate) (9CI) (CA INDEX NAME)

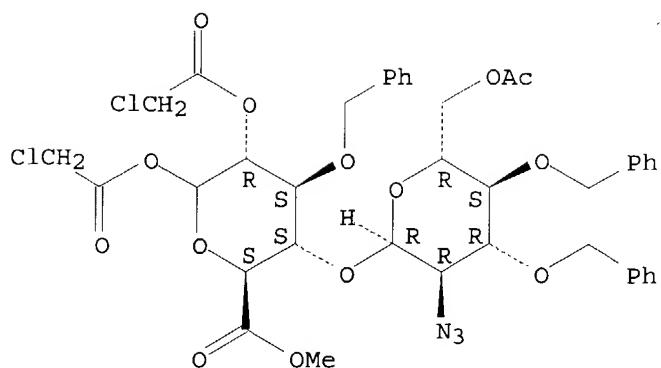
Absolute stereochemistry.



RN 444118-59-6 HCAPLUS

CN D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 1,2-bis(chloroacetate) (9CI) (CA INDEX NAME)

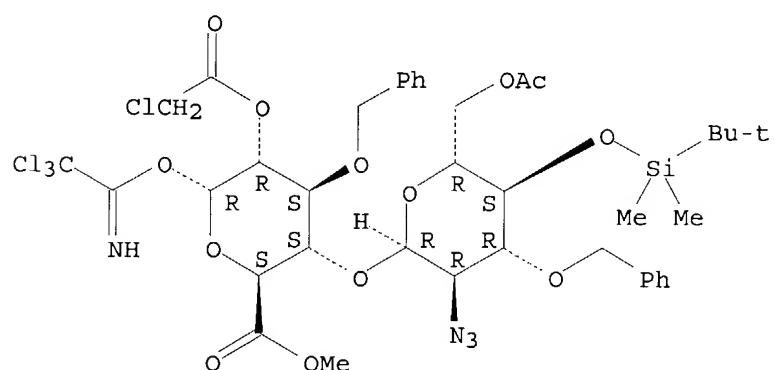
Absolute stereochemistry.



RN 444118-60-9 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

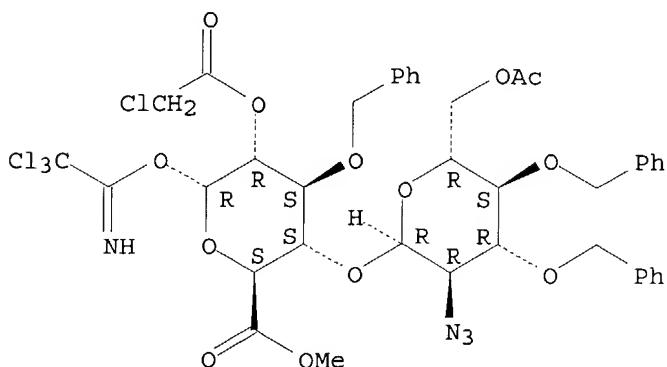
Absolute stereochemistry. Rotation (+).



RN 444118-61-0 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

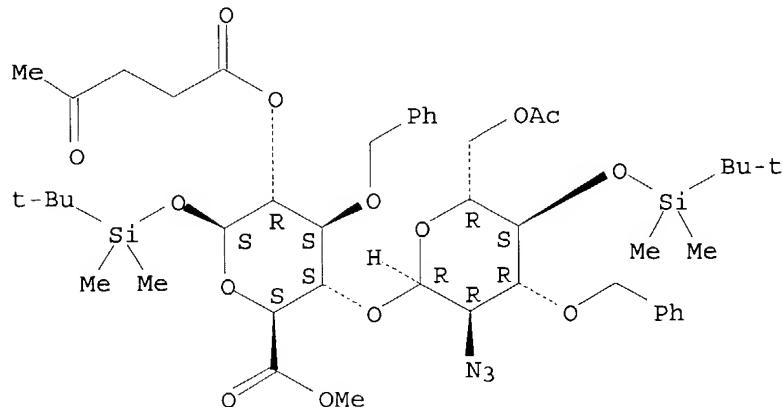
Absolute stereochemistry.



RN 444118-62-1 HCPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

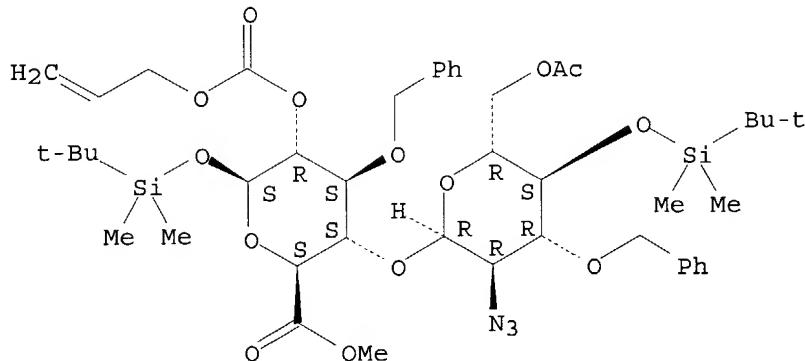
Absolute stereochemistry.



RN 444118-63-2 HCPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) (9CI) (CA INDEX NAME)

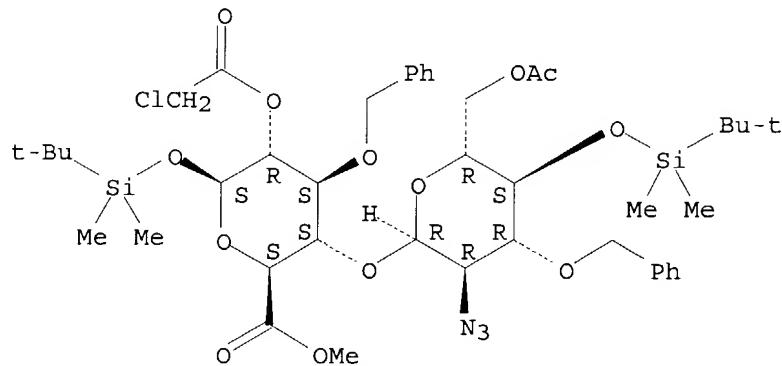
Absolute stereochemistry. Rotation (+).



RN 444118-64-3 HCPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

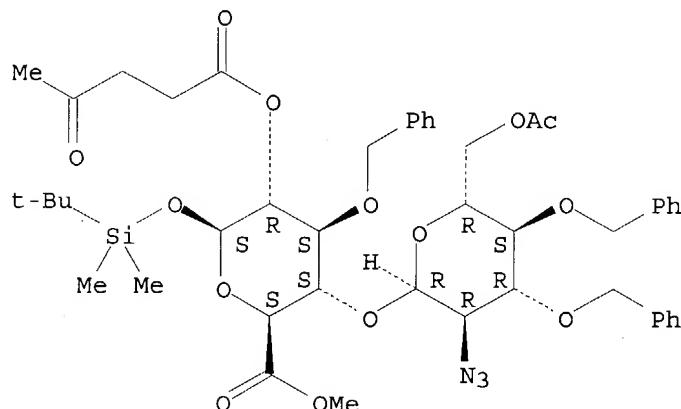
Absolute stereochemistry. Rotation (+).



RN 444118-65-4 HCPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

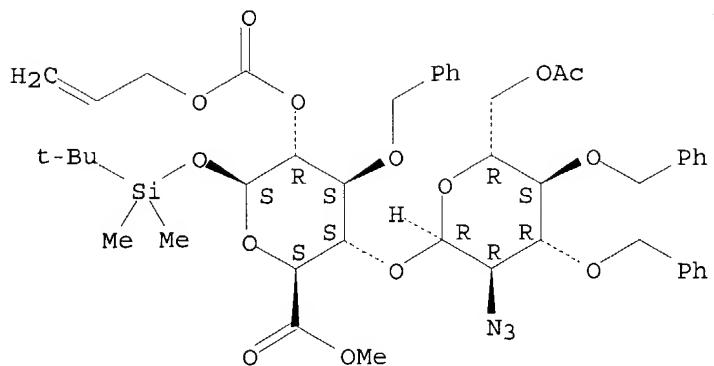
Absolute stereochemistry. Rotation (+).



RN 444118-66-5 HCPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) (9CI) (CA INDEX NAME)

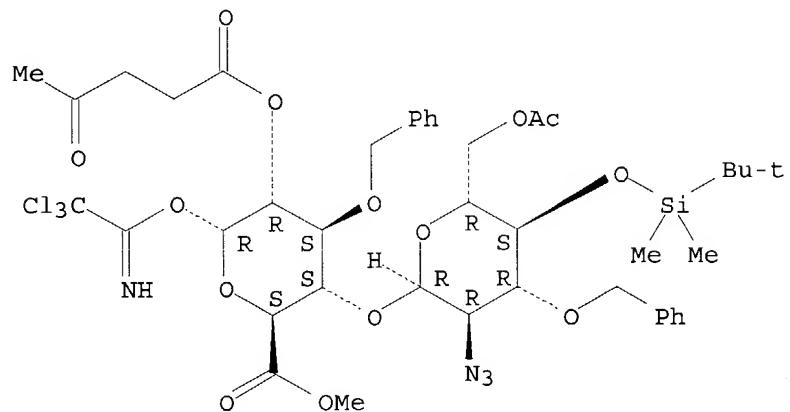
Absolute stereochemistry. Rotation (+).



RN 444118-67-6 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

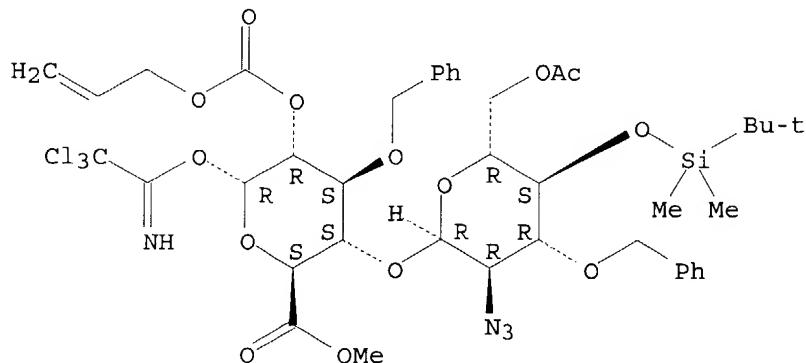
Absolute stereochemistry. Rotation (+).



RN 444118-68-7 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

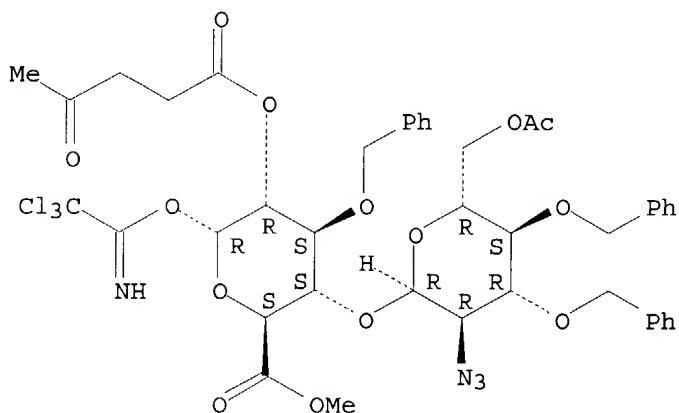
Absolute stereochemistry. Rotation (+).



RN 444118-69-8 HCAPLUS

CN α -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

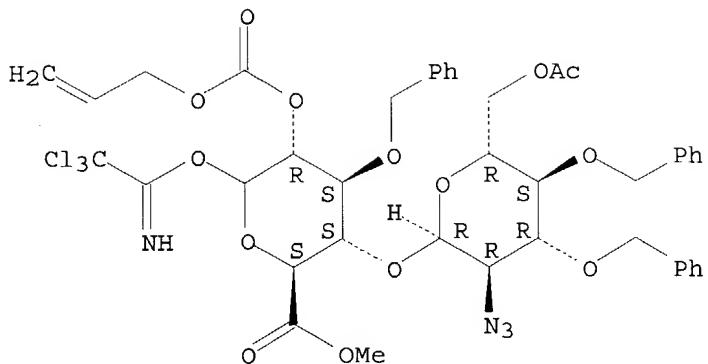
Absolute stereochemistry. Rotation (+).



RN 444118-70-1 HCAPLUS

CN D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

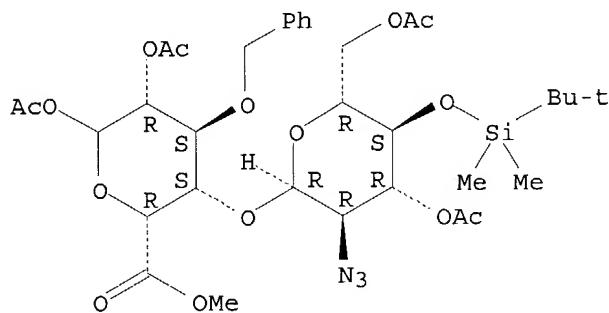
Absolute stereochemistry.



RN 444118-71-2 HCPLUS

CN L-Idopyranuronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-alpha-D-glucopyranosyl]-3-O-(phenylmethyl)-methyl ester, 1,2-diacetate (9CI) (CA INDEX NAME)

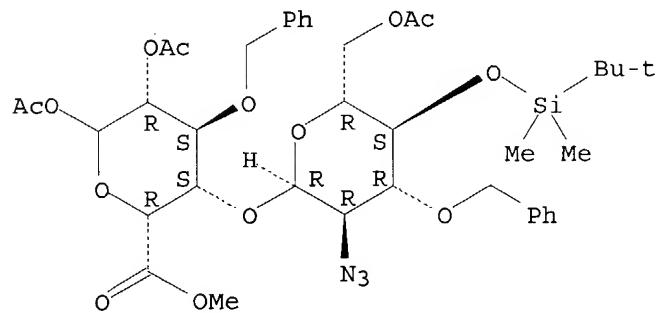
Absolute stereochemistry.



RN 444118-72-3 HCPLUS

CN L-Idopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-alpha-D-glucopyranosyl]-3-O-(phenylmethyl)-methyl ester, 1,2-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

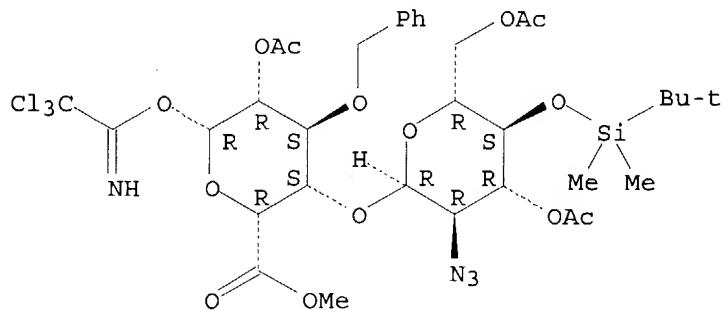


RN 444118-73-4 HCPLUS

CN beta-L-Idopyranuronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-alpha-D-glucopyranosyl]-3-O-(phenylmethyl)-methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate)

(9CI) (CA INDEX NAME)

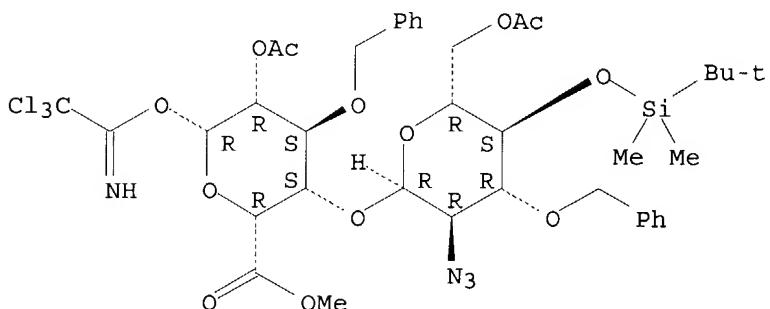
Absolute stereochemistry. Rotation (+).



RN 444118-74-5 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimide) (9CI) (CA INDEX NAME)

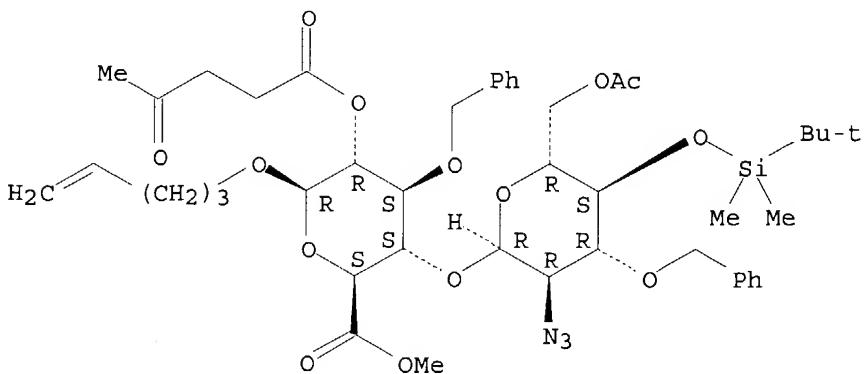
Absolute stereochemistry. Rotation (+).



RN 444118-75-6 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

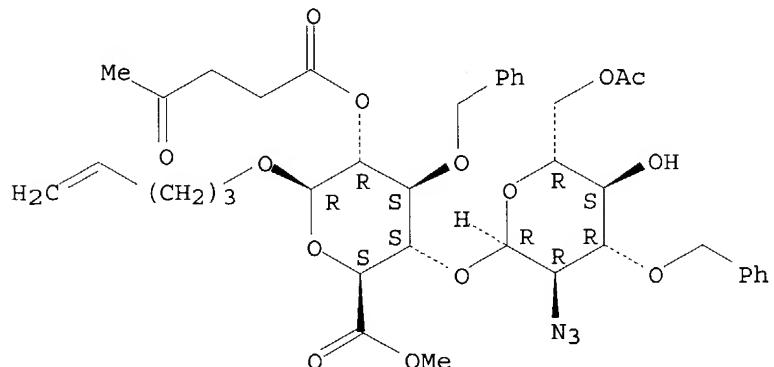
Absolute stereochemistry. Rotation (+).



RN 444118-76-7 HCPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

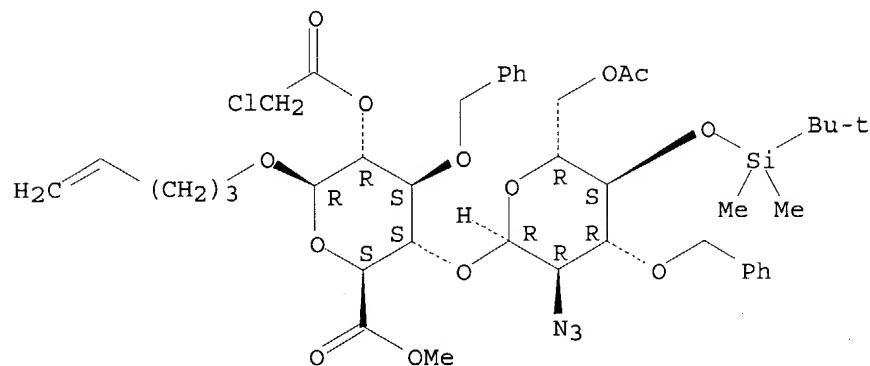
Absolute stereochemistry. Rotation (+).



RN 444118-77-8 HCPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

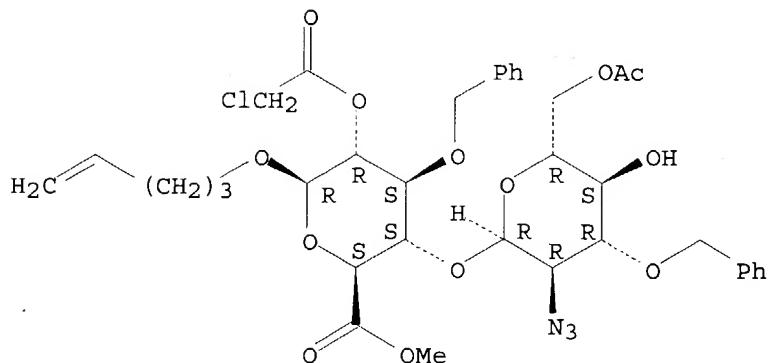
Absolute stereochemistry. Rotation (+).



RN 444118-78-9 HCPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

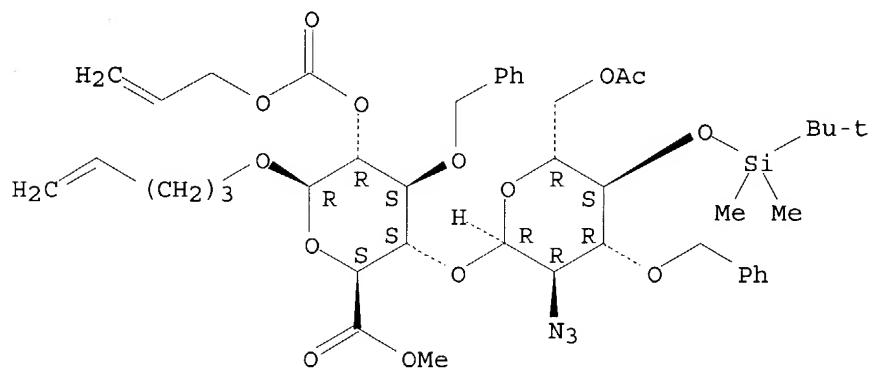
Absolute stereochemistry. Rotation (+).



RN 444118-79-0 HCPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

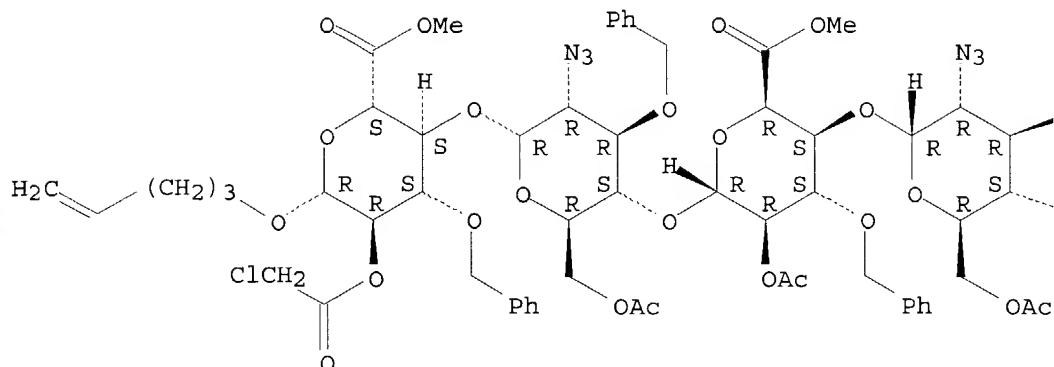


RN 444118-81-4 HCPLUS

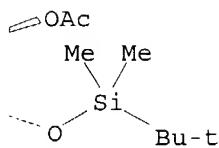
CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

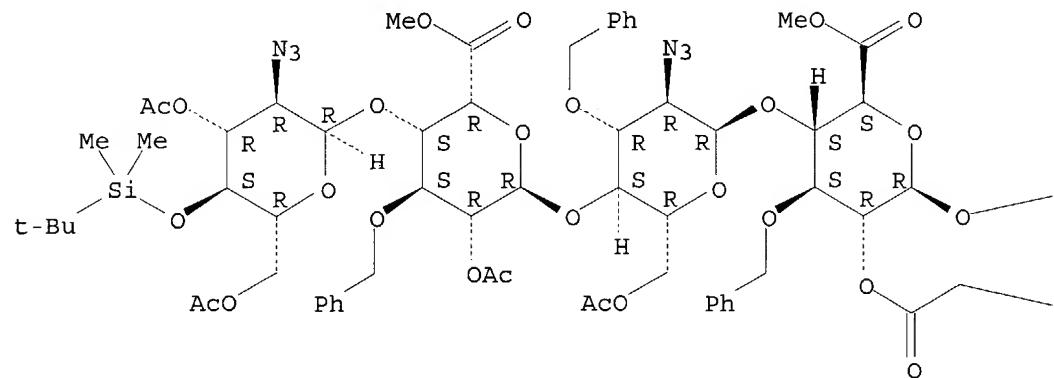


RN 444118-82-5 HCAPLUS

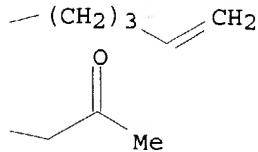
CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

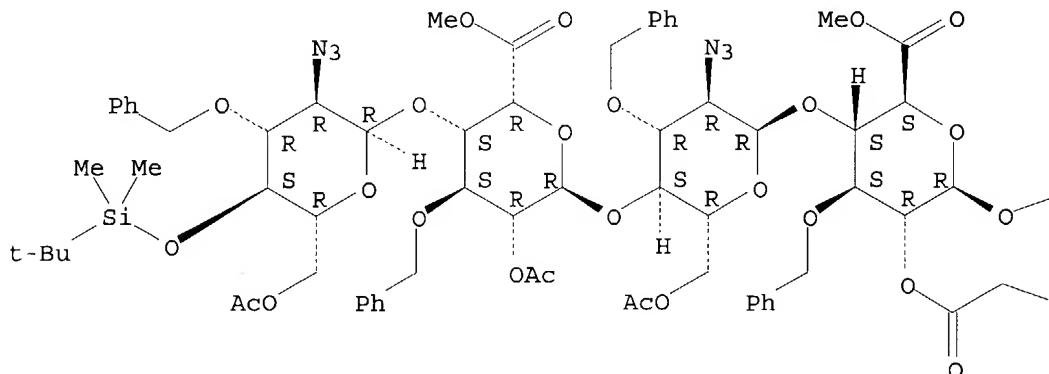


RN 444118-83-6 HCPLUS

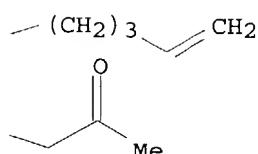
CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

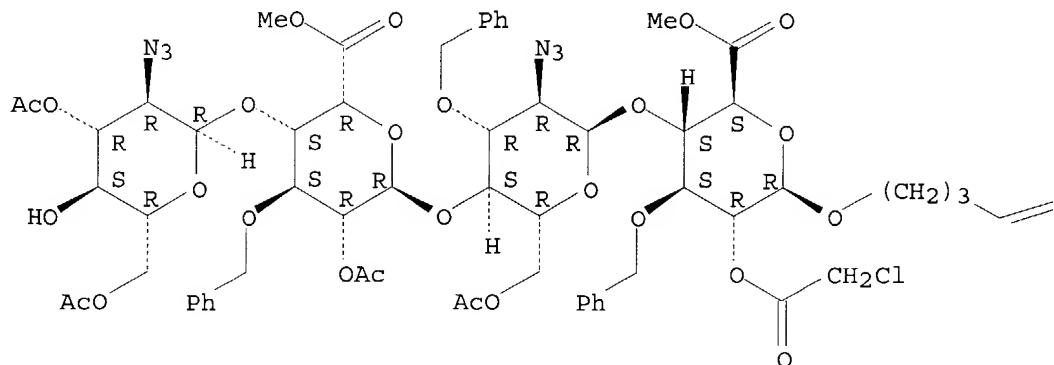


RN 444118-84-7 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

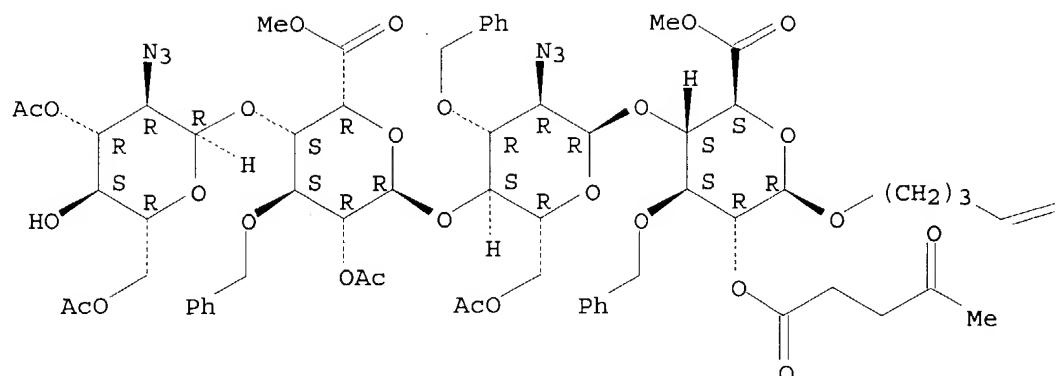
 $\equiv \text{CH}_2$

RN 444118-85-8 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



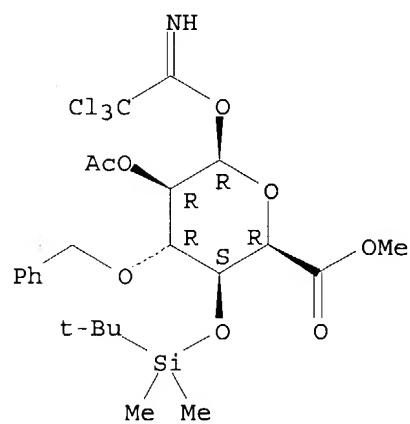
PAGE 1-B

 $\equiv \text{CH}_2$

RN 444118-87-0 HCPLUS

CN β -L-Idopyranuronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

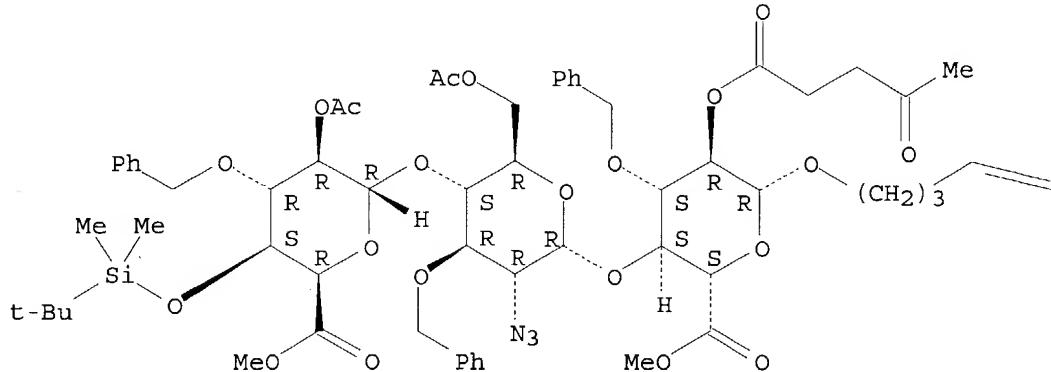


RN 444118-88-1 HCPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-2-O-acetyl-4-O-[(1,1-dimethylethyl)dimethylsilyl]-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



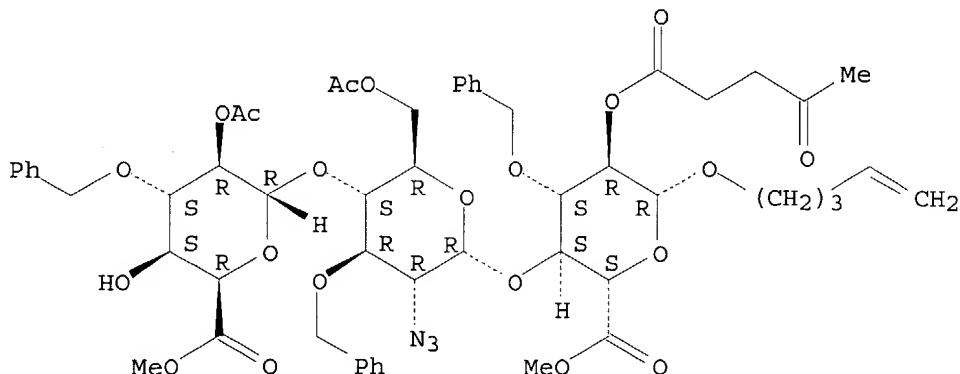
PAGE 1-B

\approx CH₂

RN 444118-89-2 HCPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

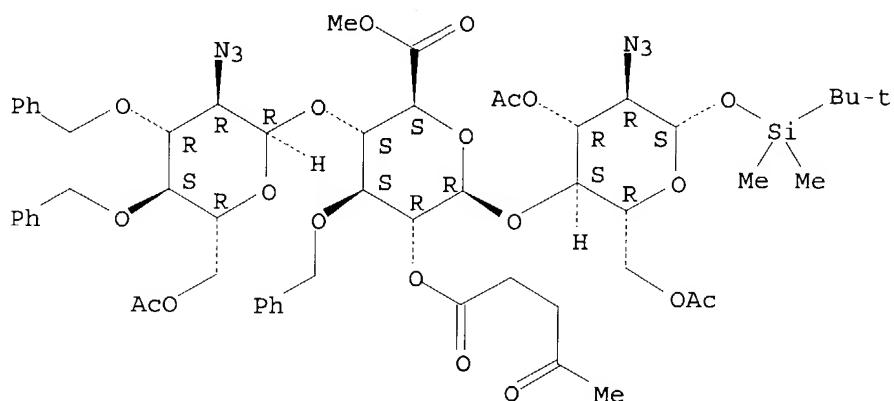


RN 444118-90-5 HCPLUS

CN β -D-Glucopyranose, O-6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-(1,4-dioxopentyl)-6-methyl-3-O-(phenylmethyl)- β -D-glucopyranuronosyl-

(1→4)-2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-diacetate (9CI) (CA INDEX NAME)

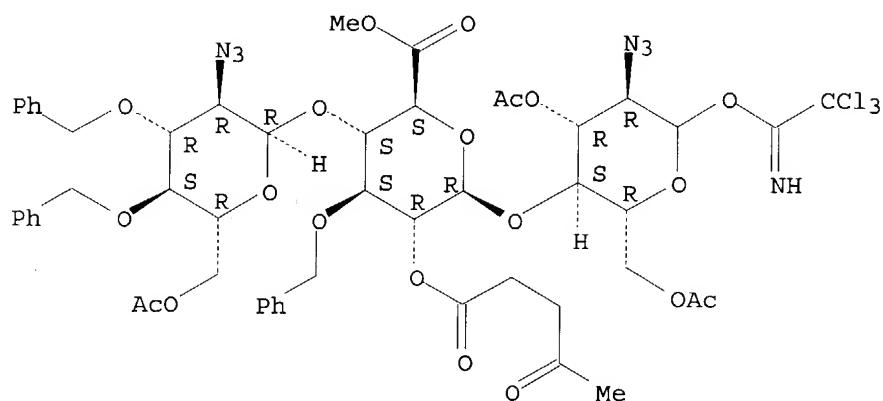
Absolute stereochemistry.



RN 444118-91-6 HCAPLUS

CN D-Glucopyranose, O-6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)-
α-D-glucopyranosyl-(1→4)-O-2-O-(1,4-dioxopentyl)-6-methyl-3-O-(phenylmethyl)-β-D-glucopyranuronosyl-(1→4)-2-azido-2-deoxy-,
3,6-diacetate 1-(2,2,2-trichloroethanimide) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

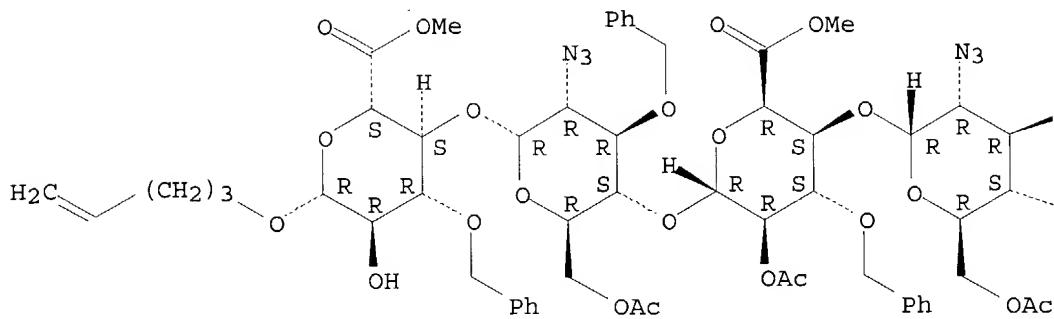


RN 444118-94-9 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,4,6-tri-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

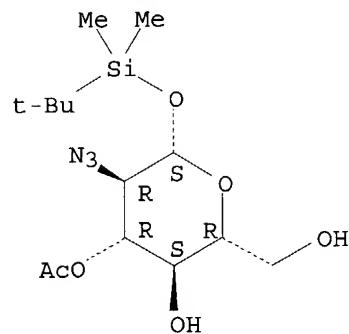
---OAc

---OAc

RN 444118-99-4 HCPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3-acetate (9CI) (CA INDEX NAME)

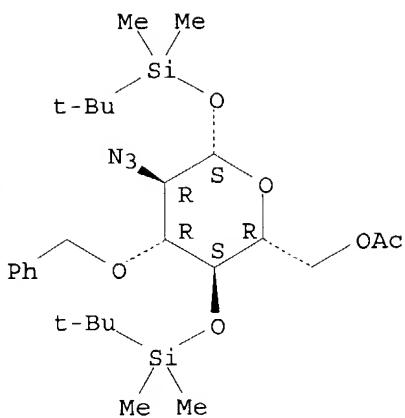
Absolute stereochemistry. Rotation (-).



RN 444119-00-0 HCPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1,4-bis-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, 6-acetate (9CI) (CA INDEX NAME)

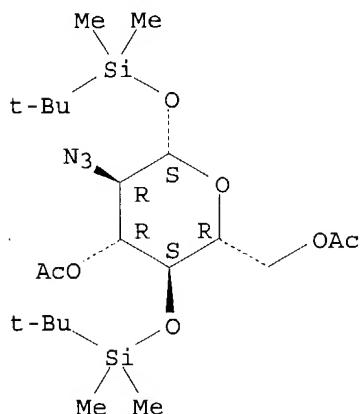
Absolute stereochemistry. Rotation (+).



RN 444119-01-1 HCPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1,4-bis-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate (9CI) (CA INDEX NAME)

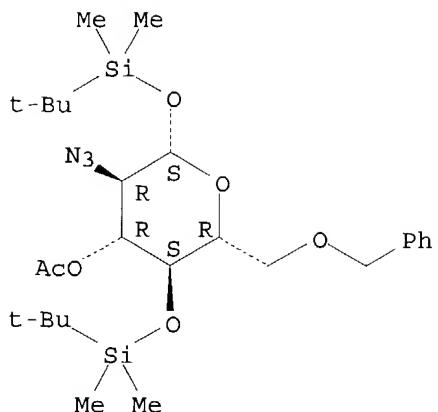
Absolute stereochemistry. Rotation (-).



RN 444119-02-2 HCPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-1,4-bis-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)-, 3-acetate (9CI) (CA INDEX NAME)

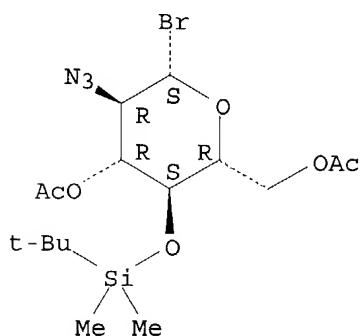
Absolute stereochemistry. Rotation (-).



RN 444119-03-3 HCPLUS

CN β -D-Glucopyranosyl bromide, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-, 3,6-diacetate (9CI) (CA INDEX NAME)

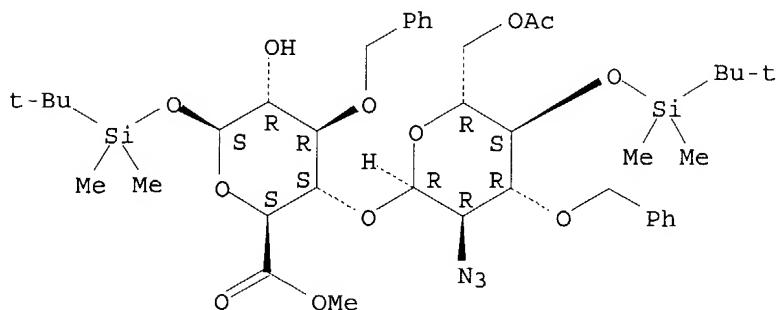
Absolute stereochemistry. Rotation (+).



RN 444119-04-4 HCPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

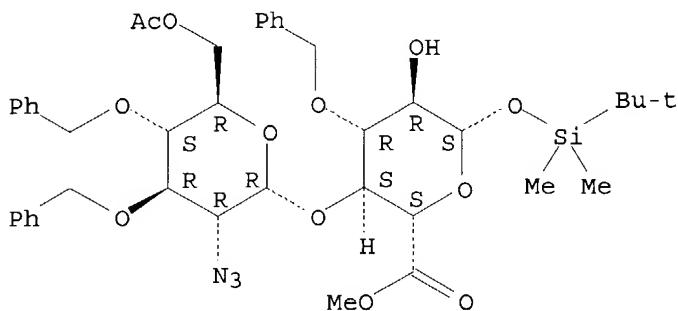
Absolute stereochemistry. Rotation (+).



RN 444119-05-5 HCPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-1-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

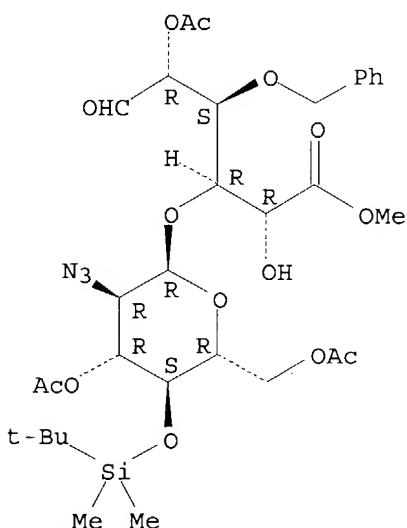
Absolute stereochemistry. Rotation (+).



RN 444119-06-6 HCPLUS

CN L-Iduronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate (9CI) (CA INDEX NAME)

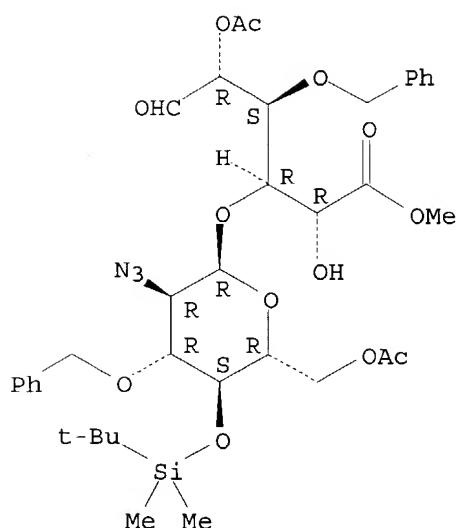
Absolute stereochemistry.



RN 444119-07-7 HCPLUS

CN L-Iduronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate (9CI) (CA INDEX NAME)

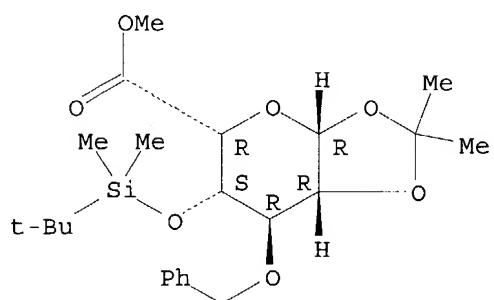
Absolute stereochemistry.



RN 444119-08-8 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-1,2-O-(1-methylethylidene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

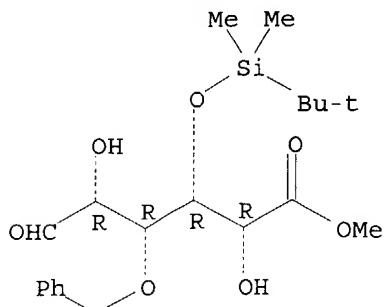
Absolute stereochemistry.



RN 444119-09-9 HCAPLUS

CN L-Iduronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

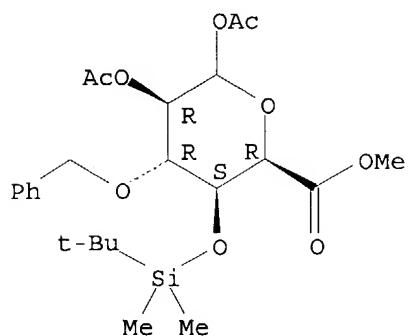
Absolute stereochemistry.



RN 444119-10-2 HCAPLUS

CN L-Idopyranuronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, diacetate (9CI) (CA INDEX NAME)

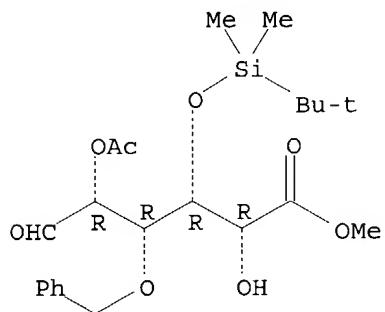
Absolute stereochemistry.



RN 444119-11-3 HCAPLUS

CN L-Iduronic acid, 4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

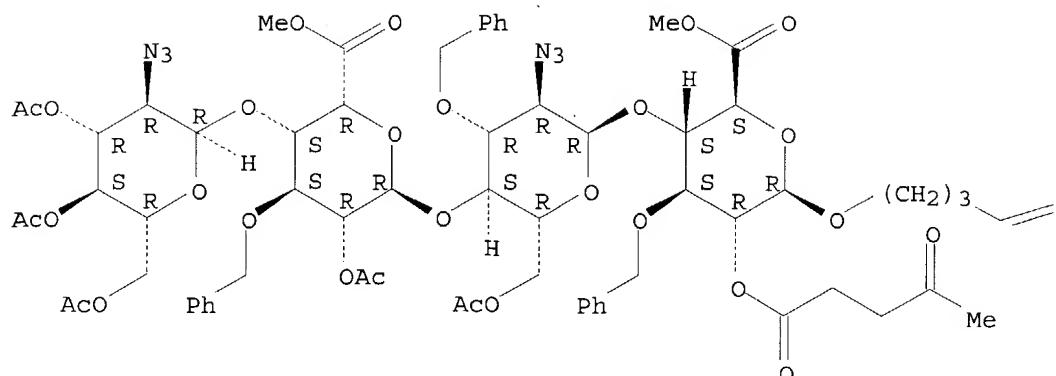


RN 444119-12-4 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-3,4,6-tri-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

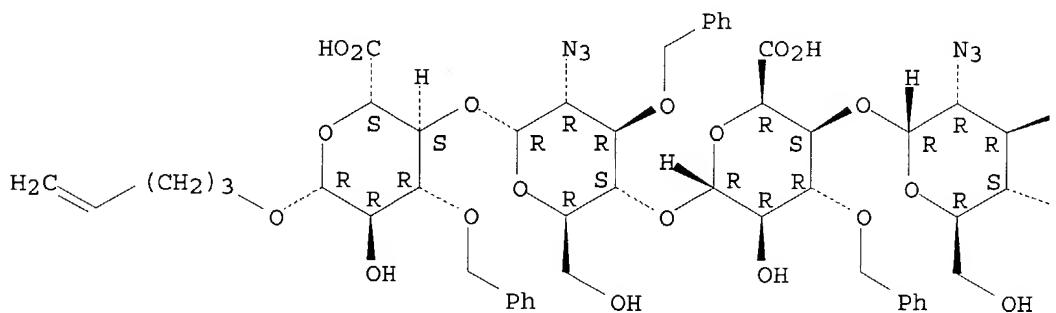
 $\equiv \text{CH}_2$

RN 444119-13-5 HCAPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

OH

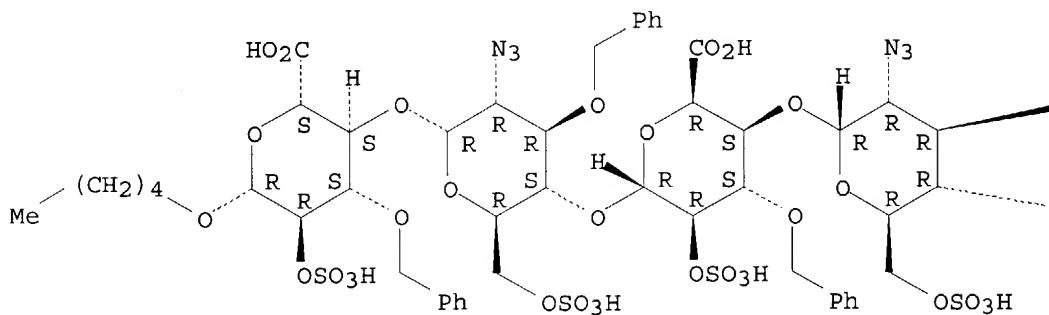
OH

RN 444119-14-6 HCAPLUS

CN β -D-Glucopyranosiduronic acid, pentyl O-2-azido-2-deoxy-3,4,6-tri-O-sulfo- α -D-glucopyranosyl-(1 \rightarrow 4)-O-3-O-(phenylmethyl)-2-O-sulfo- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-2-azido-2-deoxy-3-O-(phenylmethyl)-6-O-sulfo- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, 2-(hydrogen sulfate), octasodium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



● 8 Na

PAGE 1-B

OSO₃HOSO₃H

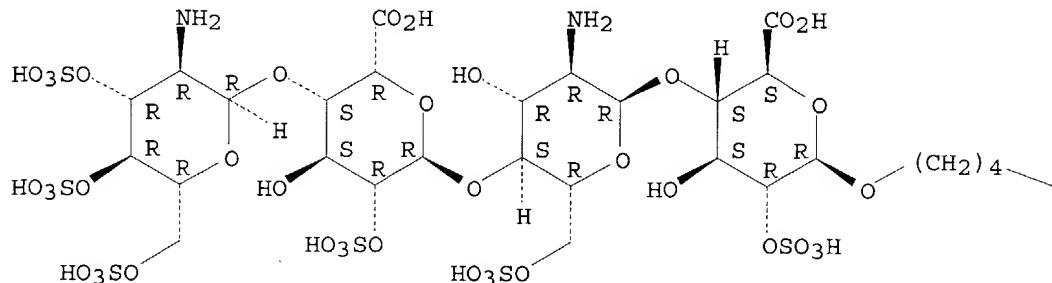
RN 444119-15-7 HCAPLUS

CN β -D-Glucopyranosiduronic acid, pentyl O-2-amino-2-deoxy-3,4,6-tri-O-sulfo- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-sulfo- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-2-amino-2-deoxy-6-O-sulfo- α -D-

glucopyranosyl-(1→4)-, 2-(hydrogen sulfate), octasodium salt (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



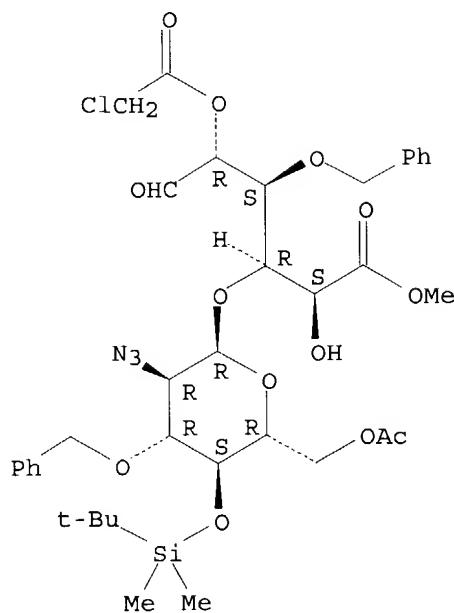
● 8 Na

PAGE 1-B

Me

RN 444119-22-6 HCPLUS
CN D-Glucuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

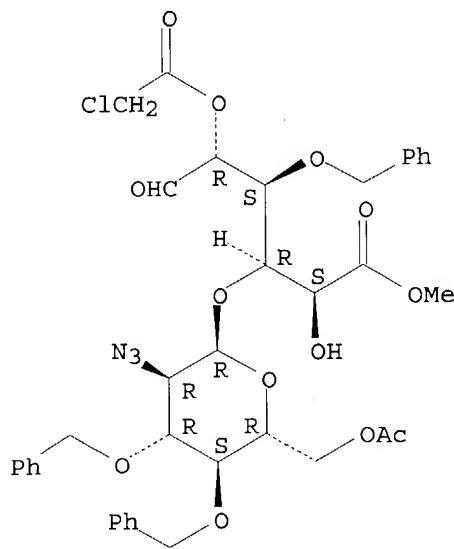
Absolute stereochemistry.



RN 444119-23-7 HCAPLUS

CN D-Glucuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)-alpha-D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(chloroacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

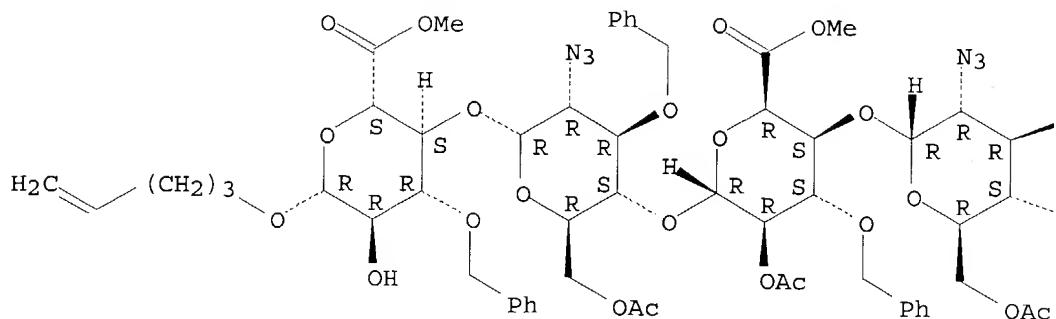


RN 444119-41-9 HCAPLUS

CN beta-D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy-alpha-D-glucopyranosyl-(1->4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)-alpha-L-idopyranuronosyl-(1->4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)-alpha-D-glucopyranosyl-(1->4)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B



IT 87326-76-9P 444118-43-8P 444118-46-1P
 444118-80-3P 444118-86-9P 444118-92-7P
 444118-93-8P 444118-95-0P 444118-96-1P
 444118-97-2P 444118-98-3P 444119-16-8P
 444119-17-9P 444119-18-0P 444119-19-1P
 444119-20-4P 444119-21-5P

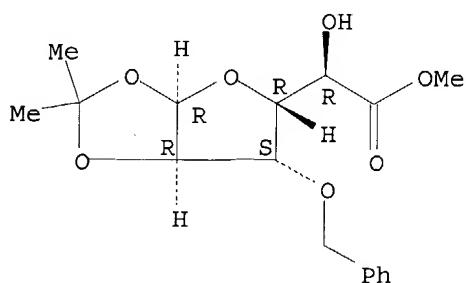
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)

(solid-phase combinatorial libraries synthesis of glycosaminoglycans as potential receptors)

RN 87326-76-9 HCAPLUS

CN β -L-Idofuranuronic acid, 1,2-O-(1-methylethyldene)-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

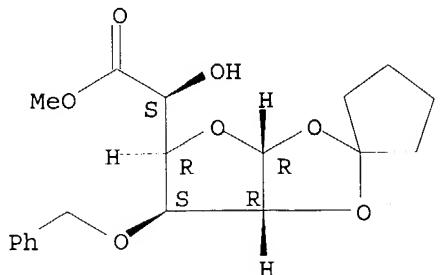
Absolute stereochemistry.



RN 444118-43-8 HCPLUS

CN α -D-Glucofuranuronic acid, 1,2-O-cyclopentylidene-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

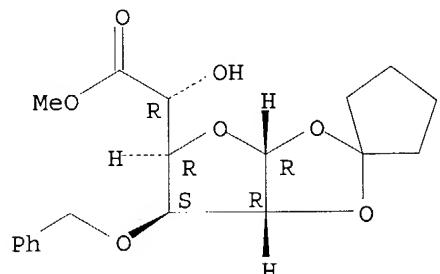
Absolute stereochemistry. Rotation (+).



RN 444118-46-1 HCPLUS

CN β -L-Idofuranuronic acid, 1,2-O-cyclopentylidene-3-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

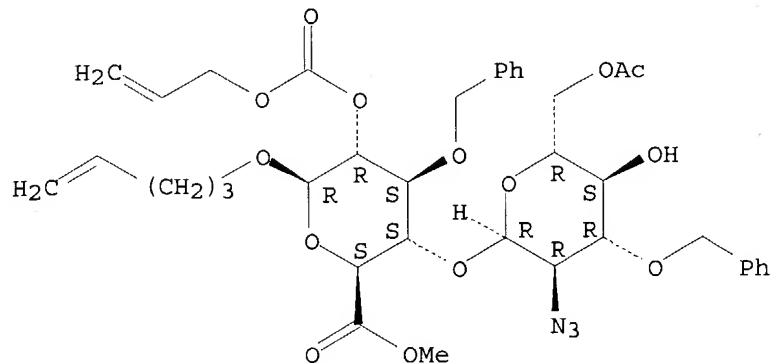
Absolute stereochemistry. Rotation (-).



RN 444118-80-3 HCPLUS

CN β -D-Glucopyranosiduronic acid, 4-pentenyl 4-O-[6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-(2-propenyl carbonate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

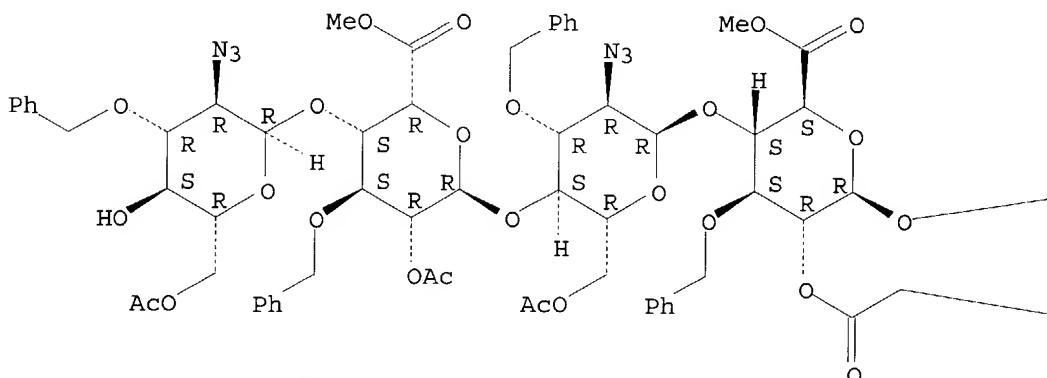


RN 444118-86-9 HCPLUS

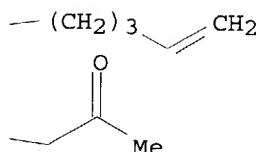
CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

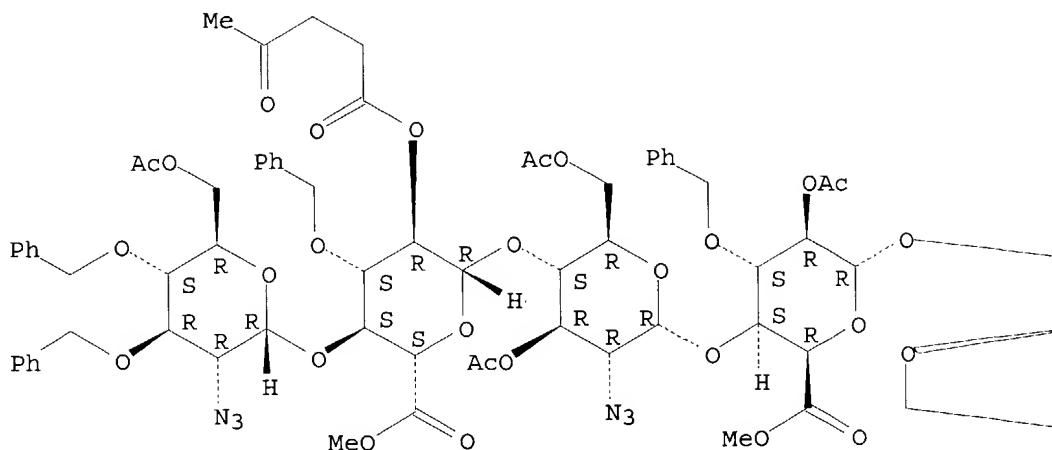


RN 444118-92-7 HCPLUS

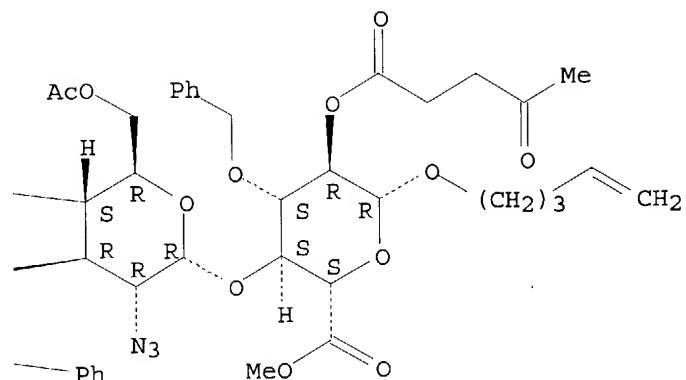
CN β -D-Glucopyranosiduronic acid, 4-pentenyl O-6-O-acetyl-2-azido-2-deoxy-3,4-bis-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-(1,4-dioxopentyl)-6-methyl-3-O-(phenylmethyl)- β -D-glucopyranuronosyl-(1 \rightarrow 4)-O-3,6-di-O-acetyl-2-azido-2-deoxy- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)- α -D-glucopyranosyl-(1 \rightarrow 4)-3-O-(phenylmethyl)-, methyl ester, 2-(4-oxopentanoate) (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1 - B

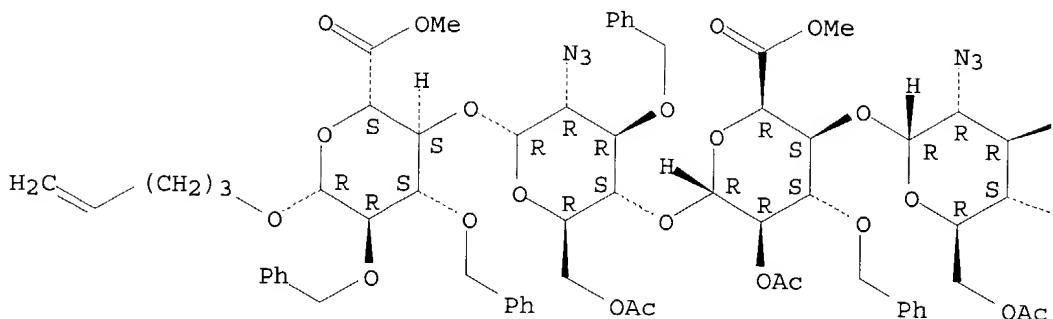


RN 444118-93-8 HCAPLUS

RN 41116-35-9
CN β-D-Glucopyranosiduronic acid, 4-pentenyl O-3,6-di-O-acetyl-2-azido-2-deoxy-α-D-glucopyranosyl-(1→4)-O-2-O-acetyl-6-methyl-3-O-(phenylmethyl)-α-L-idopyranuronosyl-(1→4)-O-6-O-acetyl-2-azido-2-deoxy-3-O-(phenylmethyl)-α-D-glucopyranosyl-(1→4)-2,3-bis-O-(phenylmethyl)-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



PAGE 1-B

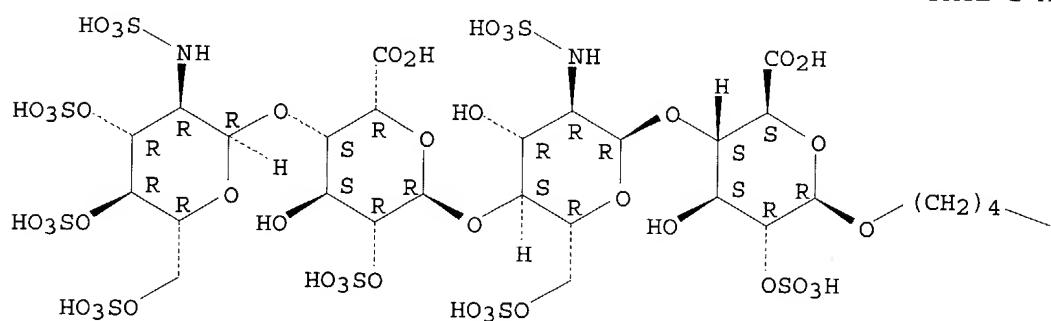
~~→ OAc~~~~→ OH~~

RN 444118-95-0 HCPLUS

CN β -D-Glucopyranosiduronic acid, pentyl 0-2-deoxy-3,4,6-tri-O-sulfo-2-(sulfoamino)- α -D-glucopyranosyl-(1 \rightarrow 4)-O-2-O-sulfo- α -L-idopyranuronosyl-(1 \rightarrow 4)-O-2-deoxy-6-O-sulfo-2-(sulfoamino)- α -D-glucopyranosyl-(1 \rightarrow 4)-, 2-(hydrogen sulfate), hexasodium salt (9CI)
(CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

PAGE 1-A



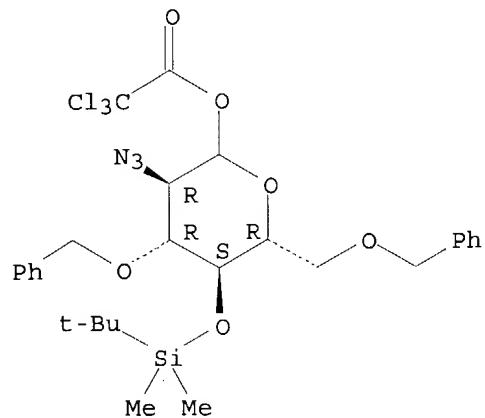
● 6 Na

PAGE 1-B

Me

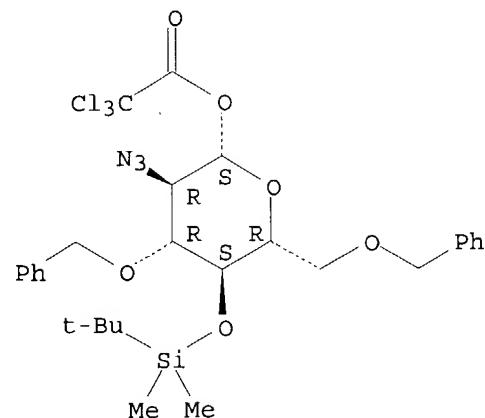
RN 444118-96-1 HCAPLUS
 CN D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-
 3,6-bis-O-(phenylmethyl)-, 1-(trichloroacetate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 444118-97-2 HCAPLUS
 CN β -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)-, 1-(trichloroacetate) (9CI) (CA INDEX NAME)

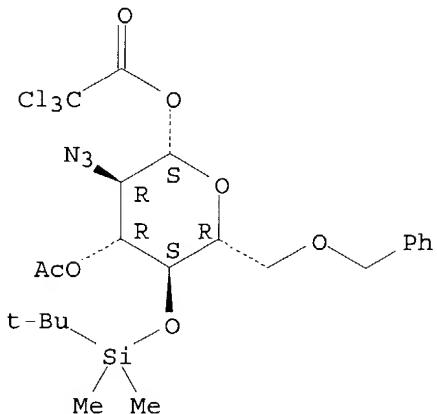
Absolute stereochemistry.



RN 444118-98-3 HCPLUS

CN β -D-Glucopyranose, 2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)-, 3-acetate 1-(trichloroacetate) (9CI) (CA INDEX NAME)

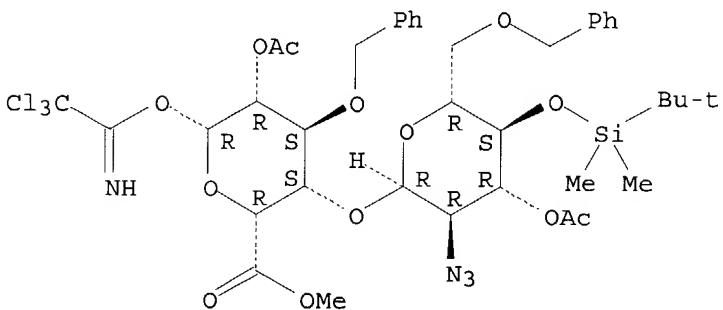
Absolute stereochemistry.



RN 444119-16-8 HCPLUS

CN β -L-Idopyranuronic acid, 4-O-[3-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

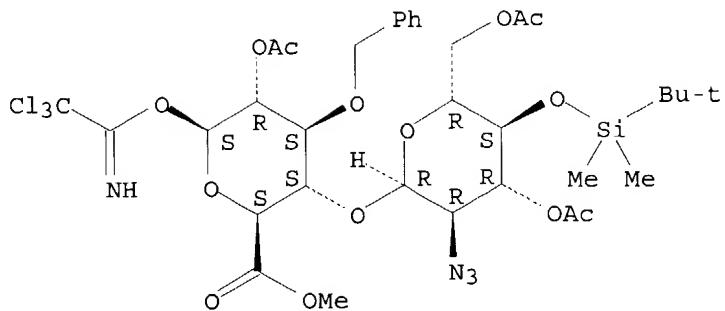
Absolute stereochemistry.



RN 444119-17-9 HCPLUS

CN β -D-Glucopyranuronic acid, 4-O-[3,6-di-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

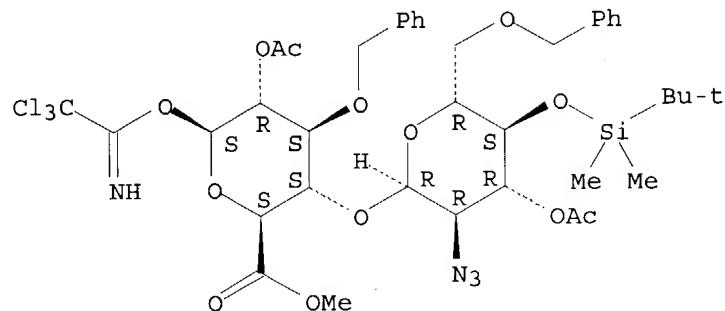
Absolute stereochemistry.



RN 444119-18-0 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[3-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-6-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimide) (9CI) (CA INDEX NAME)

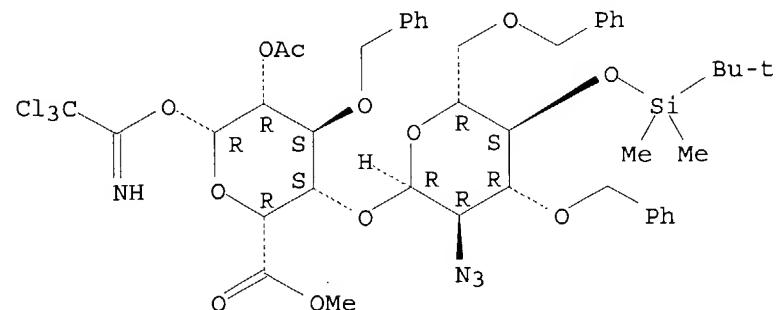
Absolute stereochemistry.



RN 444119-19-1 HCAPLUS

CN β -L-Idopyranuronic acid, 4-O-[2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimide) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

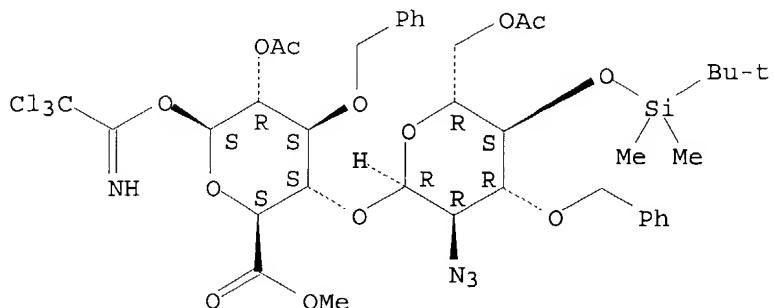


RN 444119-20-4 HCAPLUS

CN β -D-Glucopyranuronic acid, 4-O-[6-O-acetyl-2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-

trichloroethanimidate) (9CI) (CA INDEX NAME)

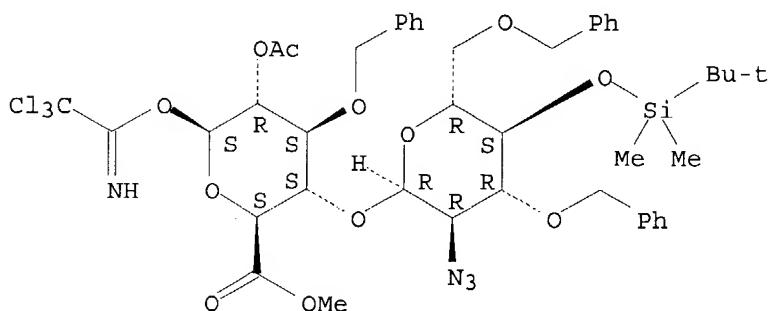
Absolute stereochemistry.



RN 444119-21-5 HCPLUS

CN β -D-Glucopyranuronic acid, 4-O-[2-azido-2-deoxy-4-O-[(1,1-dimethylethyl)dimethylsilyl]-3,6-bis-O-(phenylmethyl)- α -D-glucopyranosyl]-3-O-(phenylmethyl)-, methyl ester, 2-acetate 1-(2,2,2-trichloroethanimidate) (9CI) (CA INDEX NAME)

Absolute stereochemistry.

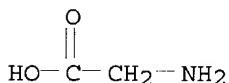


IT 56-40-6, Glycine, reactions 66-84-2, Glucosamine hydrochloride 582-52-5 171032-74-9

RL: RCT (Reactant); RACT (Reactant or reagent)
(solid-phase combinatorial libraries synthesis of glycosaminoglycans as potential receptors)

RN 56-40-6 HCPLUS

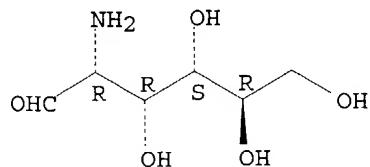
CN Glycine (8CI, 9CI) (CA INDEX NAME)



RN 66-84-2 HCPLUS

CN D-Glucose, 2-amino-2-deoxy-, hydrochloride (8CI, 9CI) (CA INDEX NAME)

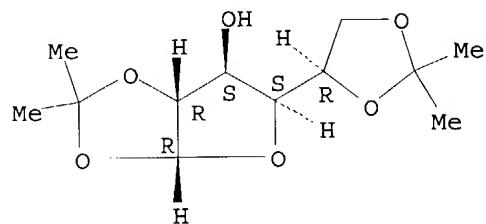
Absolute stereochemistry. Rotation (+).



● HCl

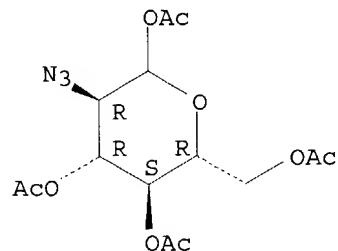
RN 582-52-5 HCPLUS
 CN α-D-Glucofuranose, 1,2:5,6-bis-O-(1-methylethylidene)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 171032-74-9 HCPLUS
 CN D-Glucopyranose, 2-azido-2-deoxy-, 1,3,4,6-tetraacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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